

NineSquared Transport Cost Benefit Analysis Model Structure

Foundation

FRAMEWORKS

- Australian Transport Assessment and Planning (ATAP) Guidelines
- Infrastructure Australia (IA) Assessment Framework
- State Development Cost Benefit Analysis Guide
- Queensland Treasury Project Assurance Framework (PAF)

SPECIFIC GUIDANCE

- **Latent Demand:** Austroads - Guide to Traffic Management Part 3: Traffic Studies and Analysis
- **Expansion Factors:** TfNSW - Principles and Guidelines for Economic Appraisal of Transport Investment and Initiatives



For more information go to <https://ninesquared.com.au/tool/cost-benefit-analysis-tool-for-transport>

Group

Impact

Approach



Placemaking

Amenity

TfNSW Assessing Place Benefits (VASP+PERs)

TfNSW Movement and Place Evaluators Guide

TfNSW CBA Guide / Parameter Value Guide



Emissions

Externalities

Embodied Carbon

ATAP PV5 Environment

Sustainability Assessment Outputs



Travel time

Vehicle Operating Costs

Reliability

Safety

ATAP PV2 Road Transport

Austroads Guide to Project Evaluation
Transport for NSW Technical Note on Calculating Road Vehicle Operating Costs

United Kingdom Department for Transport - TAG Unit A1.3 User and Provider Impacts
NZTA - Economic Evaluation Manual / Monetised benefits & costs manual

Austroads - Guide to Road Safety, Part 8: Treatment of Crash Locations
Safe System Assessment Outputs